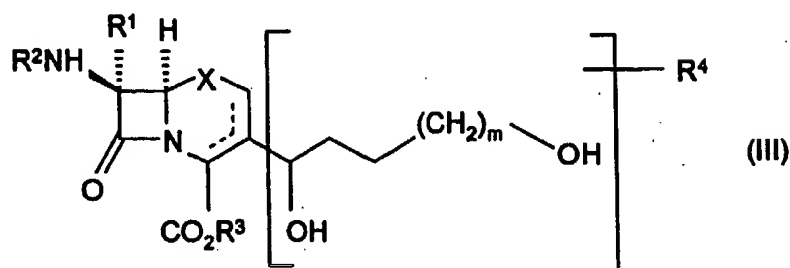


PATENT/Docket No. PC10947A
Appl. No 09/918,152
Filing Date: July 30, 2001
Amdt. dated June 17, 2004
Reply to Office action of April 19, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-15. (canceled).
17. (canceled)
18. (canceled)
21. (PREVIOUSLY AMENDED) A compound of formula (III),



wherein R¹ is hydrogen, methoxy or formamido; R² is an acyl group; R³ is hydrogen or a carboxy protecting group; R⁴ represents hydrogen or up to four substituents selected from alkyl, alkenyl, alkynyl, alkoxy, halogen, amino, alkylamino, acylamino, dialkylamino, CO₂R, CONR₂, SO₂NR₂ (where R is hydrogen or C₁₋₆ alkyl), aryl and heterocyclyl, which may be the same or different; X is S, SO, SO₂, O, or CH₂; and m is 1 or 2; and the dotted line indicates that the compound may be a 2-cephem or a 3-cephem system, and where the substituent(s) R⁴ when other than hydrogen may replace any of the hydrogen atoms bonded to carbon atoms in the side chain.